

Seagate ST500DM002

Seagate Barracuda ST500DM002 500GB Internal Hard Drive User Manual

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Seagate Barracuda ST500DM002 500GB internal hard drive. Please read these instructions carefully before proceeding to ensure proper usage and to maximize the lifespan of your device.

The Seagate Barracuda ST500DM002 is a 3.5-inch internal hard disk drive designed for desktop computers and workstations, offering 500GB of storage capacity with a Serial ATA-600 interface and a rotational speed of 7200 RPM.



Image: Front view of the Seagate Barracuda ST500DM002 500GB internal hard drive.

SETUP AND INSTALLATION

Follow these steps to properly install your Seagate Barracuda ST500DM002 hard drive into your computer system.

1. **Prepare Your System:** Power off your computer and disconnect it from the power source. Open the computer case to access the internal drive bays.
2. **Mount the Hard Drive:** Secure the hard drive into an available 3.5-inch drive bay using appropriate screws. Ensure it is firmly seated to prevent vibration.
3. **Connect Cables:**
 - Connect one end of a SATA data cable to the data port on the hard drive and the other end to an available SATA port on your motherboard.
 - Connect a SATA power cable from your power supply unit to the power connector on the hard drive.



Image: Bottom view of the hard drive showing the SATA data and power connectors.

4. **Close Case and Power On:** Close your computer case and reconnect the power. Power on your computer.
5. **BIOS/UEFI Configuration:** Access your system's BIOS/UEFI settings to ensure the new hard drive is detected. For certain circuit board swaps, a BIOS transfer may be required. Consult your system or motherboard manual for specific instructions.
6. **Operating System Setup:** Once detected, you may need to initialize, partition, and format the drive through your operating system's disk management tools before it can be used for storage.

OPERATING THE HARD DRIVE

After successful installation and formatting, your Seagate Barracuda ST500DM002 hard drive will function as a standard storage device within your computer system.

- **Data Storage:** You can save files, install applications, and store operating system data on the drive.
- **File Management:** Use your operating system's file explorer or finder to manage files and folders on the drive.
- **Performance:** The 7200 RPM rotational speed and SATA-600 interface provide efficient data transfer rates for typical computing tasks.

MAINTENANCE AND CARE

Proper maintenance helps ensure the longevity and reliability of your hard drive.

- **Regular Backups:** Regularly back up important data to another storage device. Hard drives are mechanical devices and can fail.
- **Monitor Drive Health:** Utilize disk utility software to monitor the drive's S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology) status. This can provide early warnings of potential issues.
- **Keep System Cool:** Ensure adequate airflow within your computer case to prevent the hard drive from overheating.
- **Avoid Physical Shocks:** Hard drives are sensitive to physical impact. Handle your computer with care, especially when it is operating.

TROUBLESHOOTING

If you encounter issues with your hard drive, consider the following troubleshooting steps:

- **Drive Not Detected:**
 - Check all SATA data and power cable connections to ensure they are secure.
 - Verify that the drive is enabled in your system's BIOS/UEFI settings.
 - Try connecting the drive to a different SATA port or using different cables.
- **Slow Performance:**
 - Ensure your operating system is up to date.
 - Check for background processes consuming disk resources.
 - Run a disk defragmentation (for HDDs) or optimization tool.
 - Monitor drive health using S.M.A.R.T. tools.
- **Data Corruption or Errors:**
 - Run a disk check utility (e.g., CHKDSK on Windows) to scan for and repair errors.
 - If errors persist, consider backing up data immediately and replacing the drive.

If these steps do not resolve the issue, please refer to the support section for further assistance.

SPECIFICATIONS

Feature	Detail
Brand	Seagate

Feature	Detail
Series	BarraCuda
Model Number	ST500DM002
Digital Storage Capacity	500 GB
Hard Drive Interface	Serial ATA-600
Connectivity Technology	SATA
Hard Drive Rotational Speed	7200 RPM
Hard Disk Form Factor	3.5 Inches
Hard Disk Description	Mechanical Hard Disk
Installation Type	Internal Hard Drive
Compatible Devices	Computer
Item Weight	1.6 ounces
Product Dimensions (LxWxH)	0.7 x 4 x 6 inches
Color	White (referring to the included protective cover)
Special Feature	Backward Compatible

WARRANTY INFORMATION

This product is typically covered by a manufacturer's warranty. Please refer to the official Seagate website or your purchase documentation for specific warranty terms and conditions.

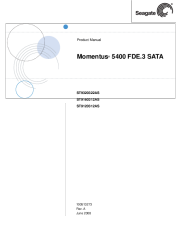
A 30-day money-back guarantee may be offered by the seller. Please check your purchase details for eligibility.

SUPPORT AND CONTACT

For technical assistance, product registration, or additional support resources, please visit the official Seagate support website:

www.seagate.com/support

Technical support is generally available for 30 days post-purchase. Please retain your proof of purchase for warranty and support claims.

	Seagate Surveillance HDD v4 SATA Product Manual ST1000VX001 Specifications and Guide Detailed product manual for the Seagate Surveillance HDD v4 SATA drive (model ST1000VX001). Covers specifications, installation, interface details, environmental requirements, and agency certifications for surveillance applications.
	Seagate Desktop HDD Product Manual: ST4000DM000 & ST3000DM003 Comprehensive product manual detailing specifications, configuration, and interface information for Seagate Desktop HDD models ST4000DM000 and ST3000DM003.
	Seagate Momentus 5400 FDE.3 SATA Product Manual Detailed product manual for Seagate Momentus 5400 FDE.3 SATA hard drives, covering specifications, features like Full Disc Encryption (FDE) and DriveTrust technology, installation, and compatibility.
	Seagate SkyHawk Surveillance SATA Product Manual: Specifications and Features Comprehensive product manual for Seagate SkyHawk surveillance hard drives, detailing specifications, SATA interface, mounting, power, environmental factors, and commands. Includes model numbers ST8000VX002, ST6000VX011, ST4000VX005, ST3000VX017, ST2000VX012, ST8000VX008, ST6000VX010, ST4000VX013, ST3000VX016, ST2000VX015.
	Seagate SkyHawk AI SATA Product Manual: Specifications and Guide Comprehensive product manual detailing the functional, mechanical, and interface specifications for Seagate SkyHawk AI SATA drive models, including technical data, environmental limits, and configuration instructions.
	Seagate Enterprise Capacity 3.5 HDD v5 SATA Product Manual This manual details the functional, mechanical, and interface specifications for Seagate's Enterprise Capacity 3.5 HDD v5 SATA drives, including Standard, Power Balance, Self-Encrypting (SED), and SED FIPS models. It covers drive features, environmental limits, reliability, agency certifications, and configuration instructions.



LASYSTEMS - Brusselsesteenweg 208 - 1730 Asse - Belgium
Phone: +32 2 4531312 Fax: +32 2 4531763
E-mail: info@lasystems.be

Seagate Desktop HDD 500GB SATA3 (ST500DM002)
500GB SATA3, 6Gb/s NCQ, 3.5", 16MB Cache, 7200rpm, RAID, RoHS



Price details:

Price excl. VAT: 49.62 €
Eco fees: 0.00 €
VAT 21 %: 5.98 €

Product details:

Product: Seagate ST500DM002
EAN: 609297000000
Manufacturer: Seagate

60.04 €
VAT included

PDF download: 17 January 2016



Barracuda® hard drives give you what you want.

Count on Barracuda® drives to deliver the storage innovations that drive your costs down and your performance up.

- 7200 RPM performance from 250GB all the way up to 15TB
- 25Tb/yr technology helps protect the small, medium and large enterprise and improved micro processor capabilities
- 25Tb/yr technology to further maximize performance

Maximize hard drive storage densities.

Barracuda® 15TB per disk technology incorporates 340,000 unique tracks in the width of a single inch. This incredible storage density drives new capacity possibilities and lowers your total storage costs.

Seagate's ActiveFlow technology enables new storage densities with accurate reading and writing to narrow access tracks that are only 75 micrometers wide! That's about 500 times smaller than the period at the end of this sentence.

Green where it counts.

Barracuda® 15TB per disk hard drives now have advanced power modes to save more energy while in idle states without sacrificing performance.

Barracuda desktop drives are produced using the most sophisticated manufacturing process in the industry, with a focus on environmental stewardship.

- Barracuda drives comply with the RoHS directive on hazardous materials and voluntarily restrict halogen compounds.
- 70% or more of the materials used to build Barracuda drives are recyclable.
- Low power consumption.

Your no hassle transition to 4K sectors.

Are you worried about moving to Advanced Format 4K sector technology? You don't have to be with Barracuda drives.

Seagate's DriveImage technology makes the transition a snap.

- No effort to run
- No extra integration steps to take up your time

Go beyond 2TB with the Barracuda® advantage.

The sure way to get better access to hard drives bigger than 2TB is to adopt the new B10S standard called UEFI. If you're not there yet, Seagate has an alternative.

Free Downloaded software from Seagate provides you a means to effectively utilize your 2TB Barracuda® drive, even with Windows XP and using the standard PC BIOS. Get your free copy to go beyond 2TB today!

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Seagate Desktop HDD 500GB SATA3 ST500DM002 This electronic user s guide is intended for anyone who uses the ST500DM0021453066650228 images10 newegg UploadFilesForNewegg itemintelligence LASYSTEMS - Brusselsesteenweg 208 - 1730 Asse - Belgium Phone: 32-2-4531312 - Fax: 32-2-4531763 E-mail: info@lasystems.be Seagate Desktop HDD 500GB SATA3 **ST500DM002** 500GB SATA3, 6Gb/s NCQ, 3.5 , 16MB Cache, 7200rpm, RAID, RoHS Price details: Price excl. VAT: 49.62 Eco fees: 0.00 VAT 21 : 1... lang:en score:41 filesize: 63.57 K page_count: 2 document date: 2016-01-17



Desktop HDD

Product Manual

Standard models

ST3000DM001
ST2000DM001
ST1500DM003
ST1000DM003
ST750DM003
ST500DM002
ST3000DM000
ST250DM000

Self-Encryption models

ST3000DM002
ST2000DM002
ST1000DM004

10080584, Rev. P
Gen 14 - September 2015

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INSTRUCTION MANUAL (HD_Ver. 1.0_2012) H61
H.264 Video Compression
High Definition Digital Video Recorder



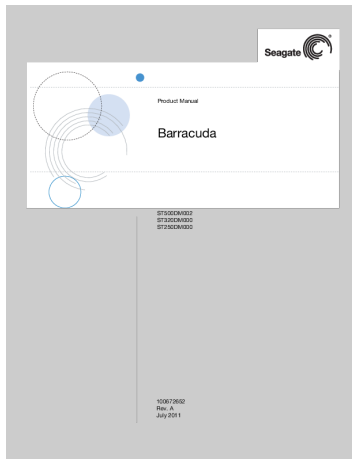
About this user guide

Before installing and using this unit, please read this user guide carefully.
Be sure to keep it handy for later reference.



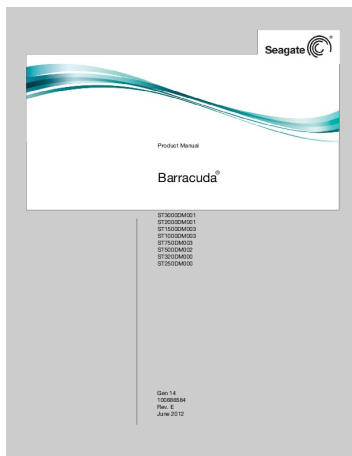
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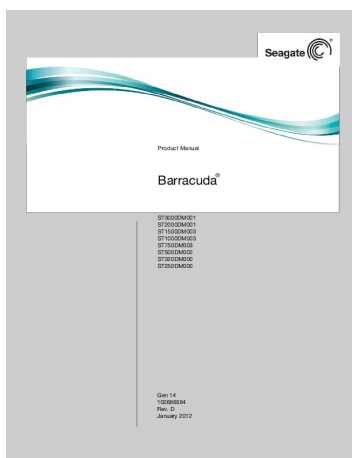
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 Rev. A July 2011 Document Revision History Revision Date Description of Change
 Rev. A 07/07/2011 Initial draft. 2011 Seagate Technology LLC. All rights reserved.
 Publication number: 100672652, Rev. A July 2011 Seagate, Seag...
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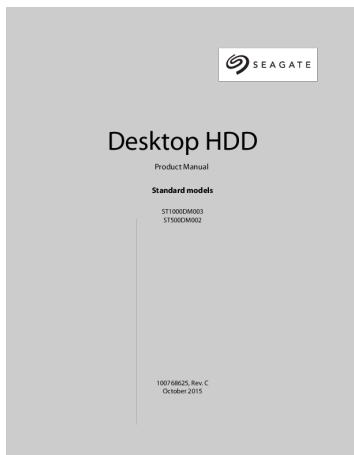
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 ST1000DM003 ST750DM003 ST500DM002 ST320DM000 ST250DM000 Seagate This manual describes
 the functional mechanical and interface specifications for following Seagate Temperature Check Point
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[Seagate Guardian Series Internal Hard Drive Transition Guide](#)

Overview of Seagate's Guardian Series internal hard drives, including BarraCuda, FireCuda, IronWolf, and SkyHawk product lines, with a transition chart detailing models, capacities, and technologies.

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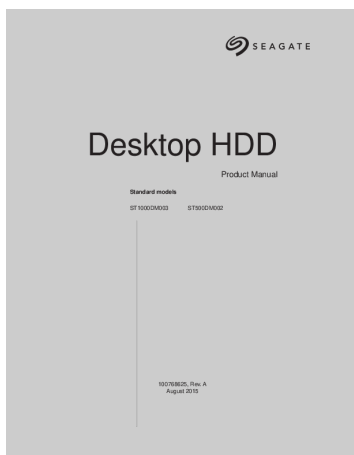


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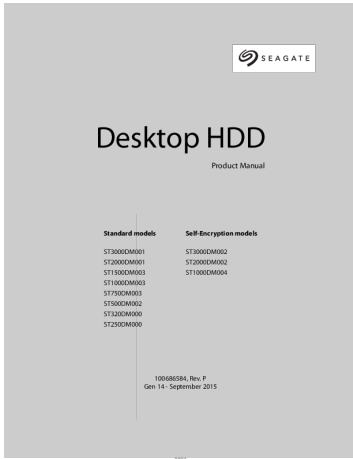


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Desktop HDD Product Manual Standard models ST1000DM003 **ST500DM002** 100768625, Rev. A August 2015 Document Revision History Revision Date Description of Change Rev. A 08/17/2014 Initial release. 2015 Seagate Technology LLC. All rights reserved. Publication number: 100768625, Rev. A August...

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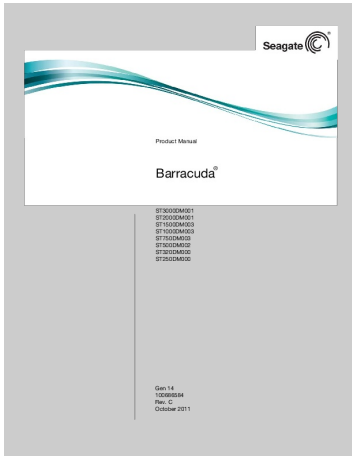
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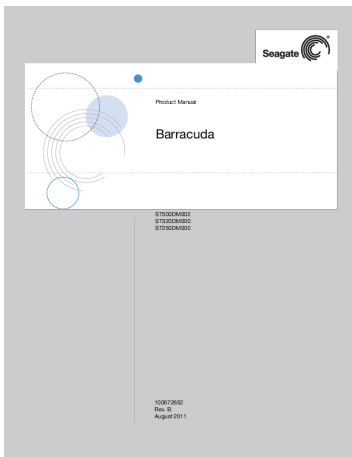
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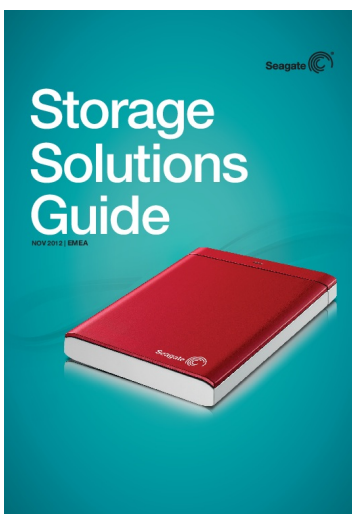
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User Manual Specifications

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describes the functional mechanical and interface specifications for following Seagate® model drives

These provide key features 7200 RPM spindle speed 100686584aa www content product barracuda fam

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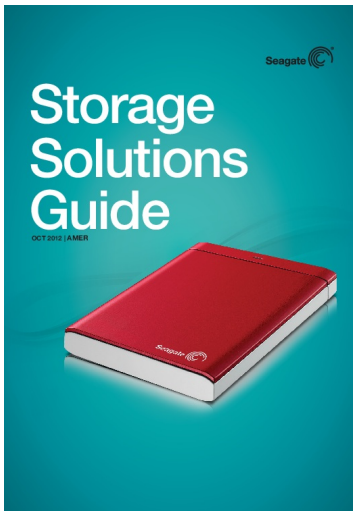
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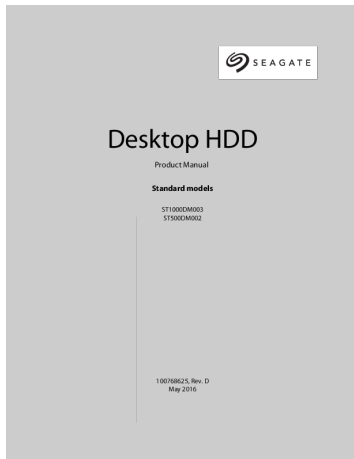
www.seagate.com 2012 Seagate Te ... e devices NAS CAPACITY1 3TB 2TB 1TB

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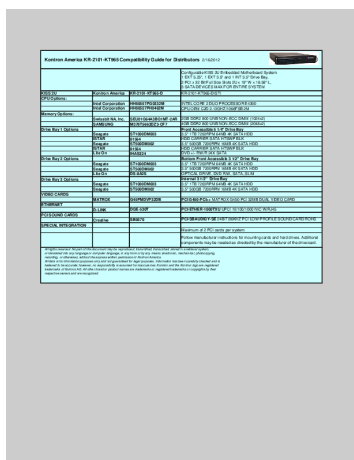
Desktop HDD Product Manual Standard models ST1000DM003 **ST500DM002** 100768625, Rev. D May 2016 Document Revision History Revision Date Pages affected and Description of Change Rev. A 08/17/2015 Initial release. Rev. B 09/01/2015 7 15: Revised Rated Workload statement Rev. C 10/20/2015 4: ... lang:en **score:27** filesize: 540.92 K page_count: 31 document date: 2016-05-18



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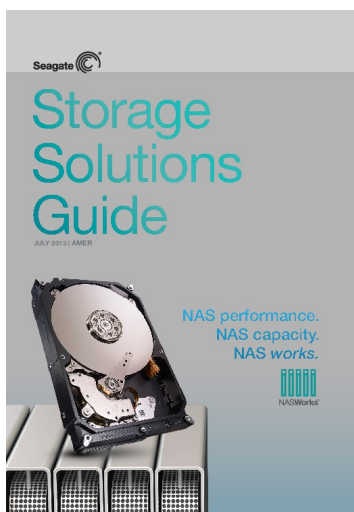
Desktop HDD Product Manual Standard models ST1000DM003 **ST500DM002** 100768625, Rev. G November 2017 Document Revision History Revision Date Pages affected and Description of Change Rev. A Rev. B Rev. C 08/17/2015 Initial release. 09/01/2015 7 15: Revised Rated Workload statement 10/20/2015 ... lang:en **score:27** filesize: 667.01 K page_count: 34 document date: 2017-11-03



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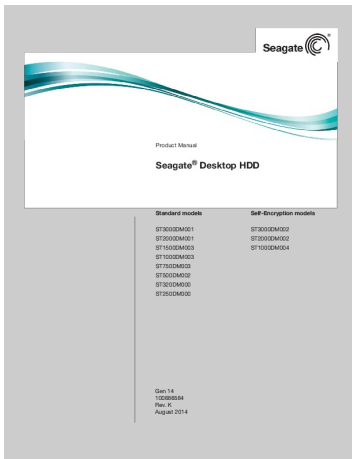
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Storage Solutions Guide JULY 2013 AMER NAS performance. NAS capacity. NAS works. STORAGE SOLUTIO ... CAPACITY1 4TB 3TB 2TB 1TB 500GB 320GB 250GB MODEL ST4000DM000 ST3000DM001 ST2000DM001 ST1000DM003 **ST500DM002** ST320DM000 ST250DM000 INTERFACE SATA 6Gb/s NCQ SATA 6Gb/s NCQ SATA 6Gb/s NCQ SATA 6Gb/s NCQ SATA 6Gb/s ... lang:en **score:27** filesize: 13.32 M page_count: 22 document date: 2013-09-10



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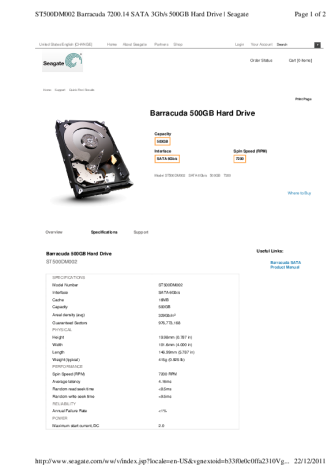
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ST320DM000 ST250DM000 Self-Encryption models ST3000DM002 ST2000DM002

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ST500DM002 Barracuda 7200.14 SATA 3Gb/s 500GB Hard Drive Seagate Page 1 of

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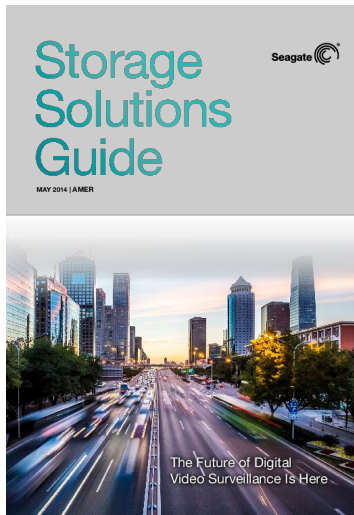
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15: Revised Rated Workload statement 2015 Seagate Technology LLC....

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Storage Solutions Guide MAY 2014 AMER The Future of Digital Video Surveillance Is Here Enterpris ... CAPACITY1 4TB 3TB 2TB 1TB 500GB 320GB 250GB MODEL ST4000DM000 ST3000DM001 ST2000DM001 ST1000DM003 **ST500DM002** ST320DM000 ST250DM000 INTERFACE SATA 6Gb/s NCQ SATA 6Gb/s NCQ SATA 6Gb/s NCQ SATA 6Gb/s ...

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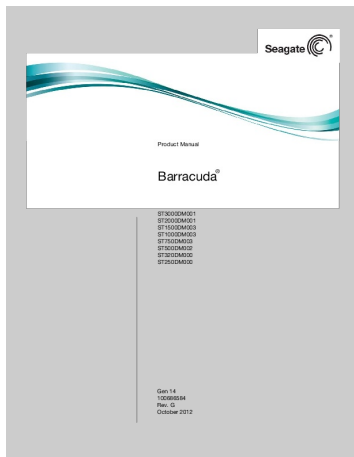
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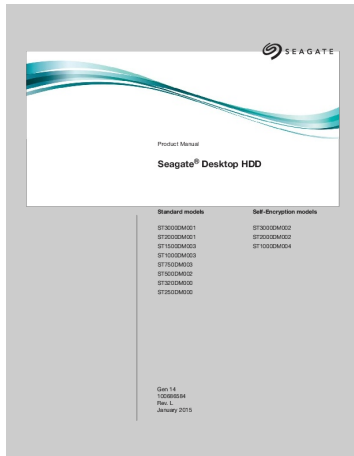
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Digital Cinema Product Guide Distribution Ingestion of Digital Content The digital cinema industry ... r,such as those from Western Digital, Seagate, and Hitachi. Example HDD s include the Seagate 500GB **ST500DM002** or Seagate 1TB ST1000M003. After duplication, the DX115 DC Carrier and USB3.0 MoveDock a... lang:en **score:25** filesize: 6.32 M page_count: 2 document date: 2014-06-18



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Data Sheet The Power of One ST2000DM001 ST1000DM003 ST500DM002 ST320DM000 ST250DM000 Seagate Secure™ Model Numbers ST2000DM002 ST1000DM004 desktop hdd 8tbDS1770 7 1511US en US seagate www content datasheets s 80

Data Sheet The Power of One Seagate brings over 30 years of trusted performance and reliability to ... 60C 40C 70C Yes Yes 19.99mm/0.787in 101.6mm/4.0in 146.99mm/5.787in 400g/0.88lb 25 40 / 8 No 500GB **ST500DM002** -- SATA 6Gb/s 16MB formerly Barracuda 6.0/3.0/1.5 144MB/s 2/1 512E or 512 5 10 50,000 ... lang:en **score:25** filesize: 132.66 K page_count: 3 document date: 2016-01-15



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Digital Cinema Product Guide CRU Inc The digital cinema industry has standardized on s rugged and reliable drive carriers frames enclosures with over 1 million units deployed for the 2 pages cru inc latest 1000 |||

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Seagate		Model	Capacity	Interface	Cache	RPM	Form Factor	Part Number
Seagate		ST3000DM006	3TB	SATA3	16MB	7200	3.5"	ST3000DM006
		ST3000DM007	3TB	SATA3	16MB	7200	3.5"	ST3000DM007
		ST3000DM008	3TB	SATA3	16MB	7200	3.5"	ST3000DM008
		ST3000DM009	3TB	SATA3	16MB	7200	3.5"	ST3000DM009
		ST3000DM010	3TB	SATA3	16MB	7200	3.5"	ST3000DM010
		ST3000DM011	3TB	SATA3	16MB	7200	3.5"	ST3000DM011
		ST3000DM012	3TB	SATA3	16MB	7200	3.5"	ST3000DM012
		ST3000DM013	3TB	SATA3	16MB	7200	3.5"	ST3000DM013
		ST3000DM014	3TB	SATA3	16MB	7200	3.5"	ST3000DM014
		ST3000DM015	3TB	SATA3	16MB	7200	3.5"	ST3000DM015
Western Digital		WD3000FZWX	3TB	SATA3	16MB	7200	3.5"	WD3000FZWX
		WD3000FZWX	3TB	SATA3	16MB	7200	3.5"	WD3000FZWX
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		WD3000FZWX	3TB	SATA3	16MB	7200	3.5"	WD3000FZWX
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Hitachi		HDT721010A	1TB	SATA3	8MB	7200	3.5"	HDT721010A
		HDT721010A	1TB	SATA3	8MB	7200	3.5"	HDT721010A
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		HDT721010A	1TB	SATA3	8MB	7200	3.5"	HDT721010A

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Data Sheet Best Fit Applications Seagate Specifications 2TB 1TB 500GB 320GB 250GB Standard ModelNumbers1 ST2 0DM1 3 5 Secure™ ModelNumbers ST2000DM002 ST1000DM004 — Interface SATA 6Gb s ST500DM002 ST320DM000 ST250DM000 Model Numbers desktop hdd 8tbDS1770 9 1603US en US seagate www content datasheets 80

Data Sheet The Power of One Seagate brings over 30 years of trusted performance and reliability to ... C 60C -40C 70C Yes Yes 19.99mm/0.787in 101.6mm/4in 146.99mm/5.787in 400g/0.88lb 25 40 / 8 No 500GB **ST500DM002** -- SATA 6Gb/s 16MB formerly Barracuda 6.0/3.0/1.5 144MB/s 2/1 512E or 512 5 10 50,000 -... lang:en **score:23** filesize: 133.07 K page_count: 3 document date: 2016-04-01

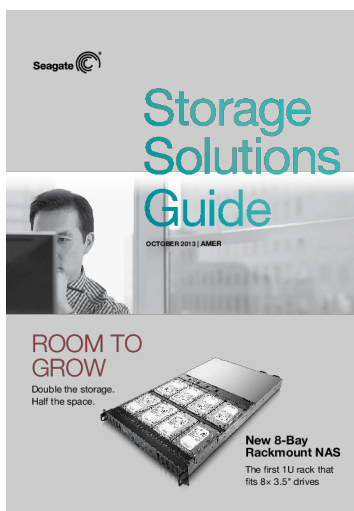


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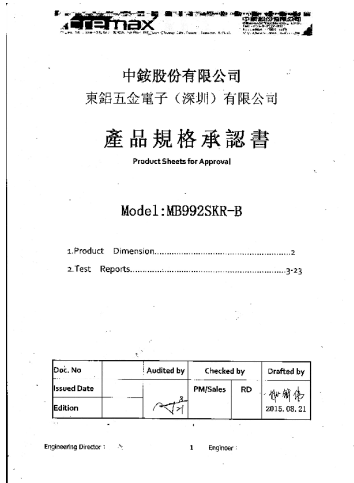
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1 EASY LINK PRO SUPPORT MANUAL Teknikmagasinet DVR Support Manual Playback Tool Run the CD ROM and install in your computer How to Play Files Note tool 101085 ENG teknikmagasinet se storage ma ee3a483b52354e909da9fd9031deea72 5b1fe2fbaf0c41c594e098d3470c7bd9 61997C5532F03B8C0A61719AF092D77EE83F570B MediaArchive ForceDownload true DVR EASY LINK PRO SUPPORT MANUAL ENGLISH Contents Contents ST31000340AS ST31500341AS ST380815AS ST3250310AS ST3320620AS ST32000542AS ST2000DL003/5900R/6.0G/S **ST500DM002**/7200R/6.0G/S ST1000DM003/7200R/6.0G/S ST2000DM001 ST500DL001/ HD503HI ST3160815SV ST3250... lang:en **score:23** filesize: 6.95 M page_count: 12 document date: 2015-08-12



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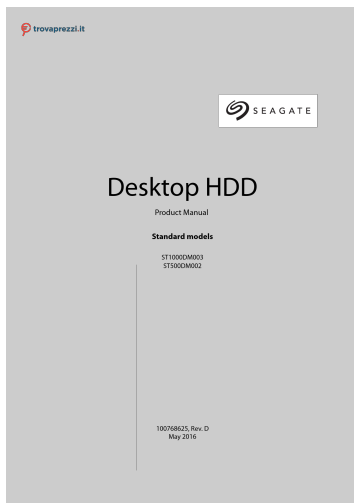


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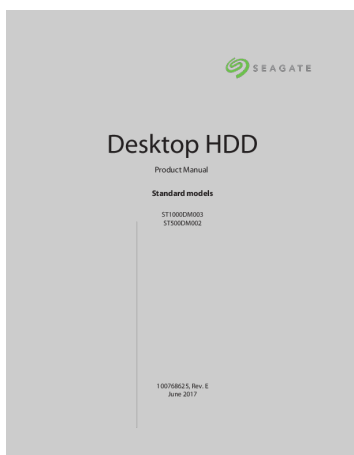


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